



HD-3



Owner's Manual

Virgin Musical Instruments

Precaution

Thank you for purchasing this electronic instrument. For perfect operation and security, please read the manual carefully and keep it for future reference.

Safety Precautions



The lightning flash with arrowhead symbol within an equilateral triangle is intended to alert the user to the presence of uninsulated “dangerous voltage” within the product's enclosure that may be of sufficient magnitude to constitute a risk of electric shock to persons.



The exclamation point within an equilateral triangle is intended to alert the user to the presence of important operating and maintenance (servicing) instructions in the literature accompanying the product.

Important Safety Instructions

- 1) Read these instructions.
- 2) Keep these instructions.
- 3) Heed all warnings.
- 4) Follow all instructions.
- 5) Do not use this apparatus near water.
- 6) Clean only with dry cloth.
- 7) Do not block any ventilation openings, install in accordance with the manufacturer's instructions.
- 8) Do not install near the heat sources such as radiators, heat registers, stoves, or other apparatus (including amplifiers) that produce heat.
- 9) Do not defeat the safety purpose of the polarized or grounding-type plug. A polarized plug has two blades with one wider than the other. A grounding type plug has two blades and a third grounding prong. The wide blade or the third prong are provided for your safety, if the provided plug does not fit into your outlet, consult an electrician for replacement of the obsolete outlet.
- 10) Protect the power cord from being walked on or pinched particularly at plugs, convenience receptacles, and the point where they exit from the apparatus.
- 11) Only use attachments/accessories specified by the manufacturer.
- 12) Use only with the cart, stand, tripod, bracket, or table specified by the manufacturer, or sold with the



apparatus. When a cart is used, use caution when moving the cart/apparatus combination to avoid injury from tip-over (Figure 1).

13) Unplug this apparatus during lightning storms or when unused for a long period of time.

14) Refer all servicing to qualified service personnel. Servicing is required when the apparatus has been damaged in any way, such as power-supply cord or plug is damaged, liquid has been spilled or objects have fallen into the apparatus, the apparatus has been exposed to rain or moisture, does not operate normally, or has been dropped.

WARNING: To reduce the risk of fire or electric shock, do not expose this apparatus to rain or moisture.

CAUTION: Apparatus shall not be exposed to dripping or splashing and no objects filled with liquids, such as vases, shall be placed on the apparatus.

Always make sure all batteries are inserted in conformity with the +/- polarity markings.

Always replace all batteries at the same time. Do not use new batteries together with old ones. Also, do not mix battery types, since this can cause overheating, fire, or battery fluid leakage.

Remove the batteries from the instrument if it is not to be used for a long time.

FCC STATEMENT

1. This device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions:

(1) This device may not cause harmful interference.

(2) This device must accept any interference received, including interference that may cause undesired operation.

2. Changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

NOTE: This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation.

This equipment generates uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications.

However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.

- Increase the separation between the equipment and receiver.

- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.

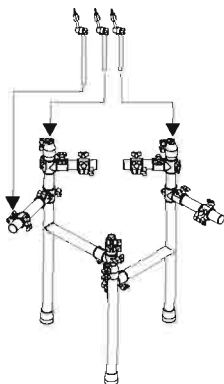
- Consult the dealer or an experienced radio/TV technician for help.

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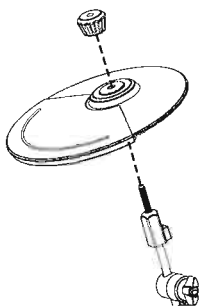
Assembly Instruction

1



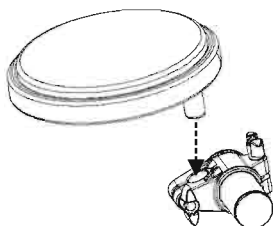
Attach the cymbal arms to the drum frame indicated positions

2



Attach the cymbals to the cymbal arms as shown.

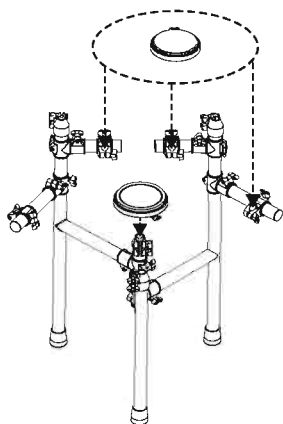
3



Align the holes in Snare Drum Pad and the three Tom Drum Pads and insert into the pole on the Drum Frame as shown.

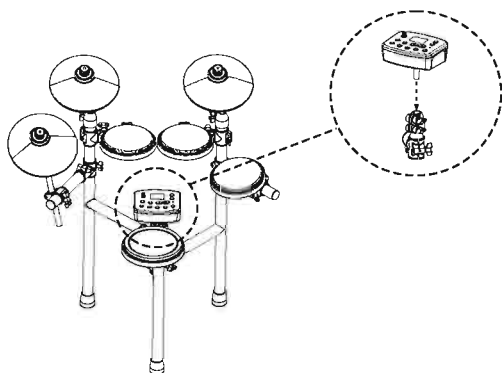
Assembly Instruction

4



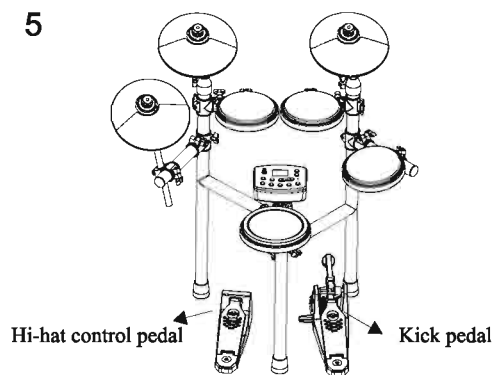
Attach the Drum Pads in the positions shown below.

5



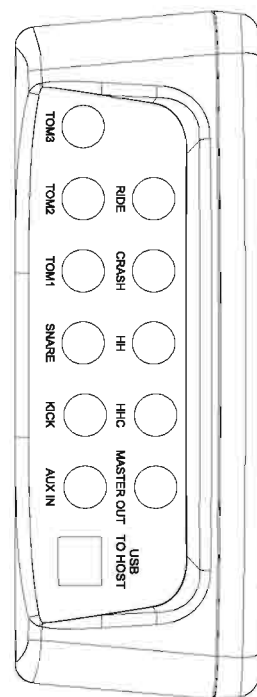
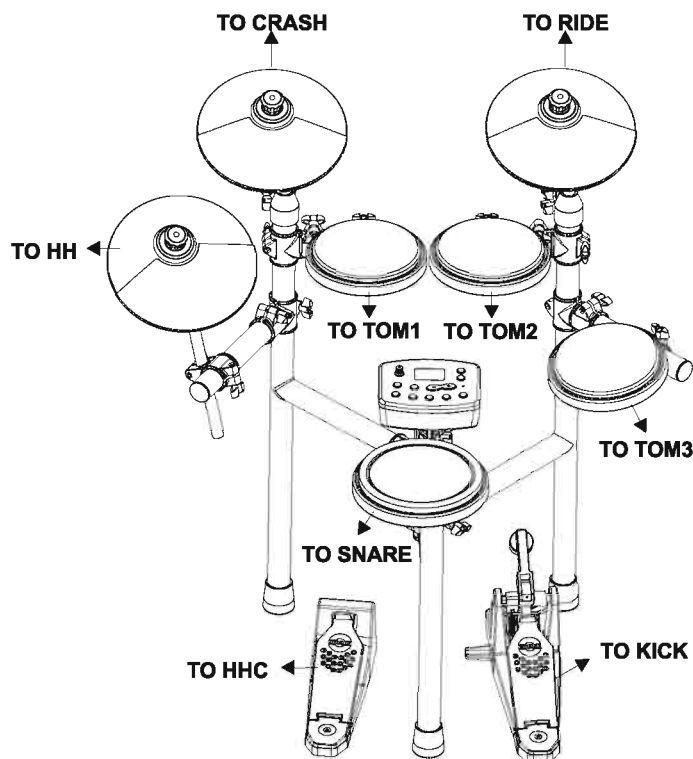
Insert the rod of sound module stand into the Drum Frame clamp as shown, then tighten.

5



Please put Hi-hat control pedal on the left and Kick pedal on the right.

Assembly Instruction

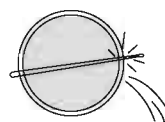


Hi-Hat Foot Controller

- It can produce hi-hat closed sound if you hit hi-hat when pressing foot controller.
- It can produce hi-hat open sound if you hit hi-hat without pressing foot controller.
- Press foot controller directly to produce hi-hat pedal sound.
- The hi-hat tone changes smoothly from open to closed in response to press the pedal while hitting the hi-hat.
- Press the latter part of the pedal quickly and release the pedal immediately to produce splash sound.

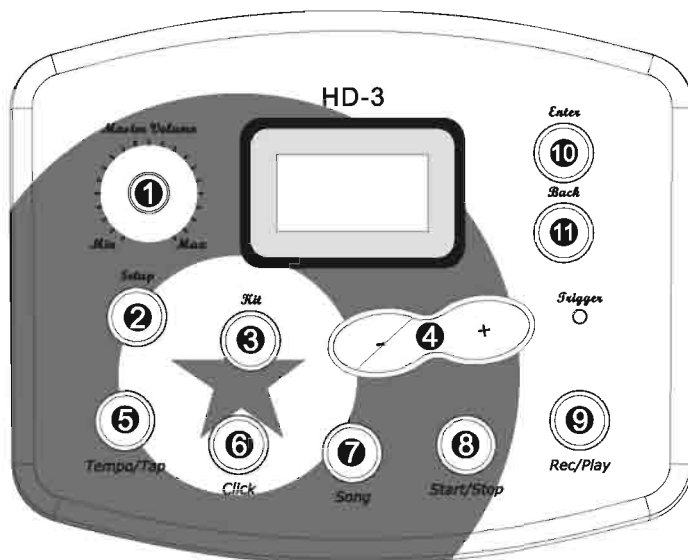
Cross Stick

Only strike the rim of the snare pad to produce stick sound.

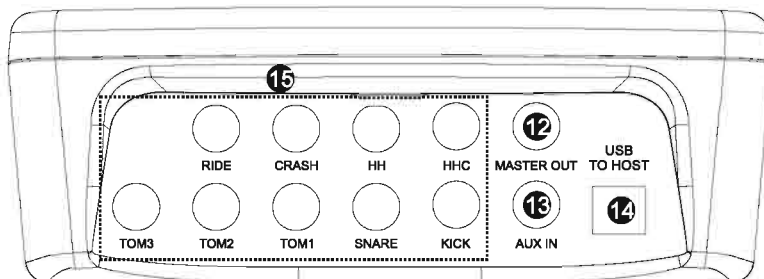


Panel Controls

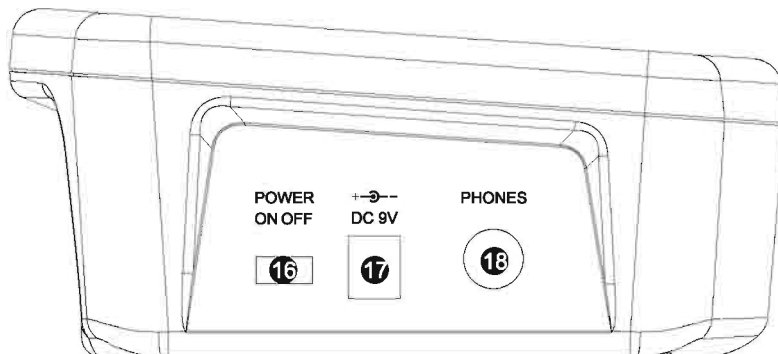
Top Panel



Rear Panel



Side Panel



Top Panel

- | | |
|---------------------|---|
| 1.MASTER VOLUME | This is used to adjust LINE OUT volume, headphone volume and LINE IN volume. |
| 2.SETUP Button | This button is used to set retrigger cancel, threshold, velocity curve, effect, etc of the pad. |
| 3.KIT Button | This button is used to set the volume and voice of the pad. |
| 4.+/- Button | This button is used to select the parameters, voices, etc. |
| 5.TEMPO/TAP Button | This button is used to change the song's tempo and metronome tempo, allows you to tap the tempo on the pad to change the song's tempo. |
| 6.CLICK Button | This button is used to enter metronome setting display, to adjust metronome volume, metronome sound and type. |
| 7. SONG Button | This button is used to enter the song select display. You can turn off the percussion track of the song, and adjust the song's volume (percussion track and accompaniment track). |
| 8.START/STOP Button | This button is used to start or stop playing the song. In recording mode, press this button can start or stop recording. In voice selection mode, can listen to the sound. |
| 9.REC/PLAY Button | This button is used to enter recording display, you can also select user song playing mode. |
| 10.ENTER Button | This button is used to confirm current function and save the parameters you set |
| 11.BACK Button | This button is used to return to the previous menu. |

Panel Controls

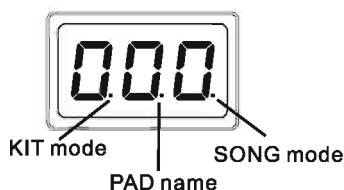
Real Panel

- 12.MASTER OUT This jack is used to connect the module to an external amplifier, mixer, etc.
- 13.AUX IN Connect the output of an external audio device, etc., to this jack (stereo mini jack).
This is convenient for playing along with music from a CD or cassette player.
- 14.USB TO HOST ① This is USB MIDI jack. Connect PC or other USB host devices that support USB audio with a standard USB cable to transfer MIDI data.
② USB AUDIO: By USB cable, you can digitally transfer intact audio signals of PC to this instrument, and enjoy it on this instrument or use it for accompany when you play this instrument; likewise, you can transfer intact audio signals of the instrument to PC to record and edit music.
- 15.Trigger Input Jacks These jacks are used to connect the pads to the Module.
(HHC, HH, CRASH, RIDE, KICK, SNARE, TOM1, TOM2, TOM3)

Side Panel

- 16.POWER ON/OFF This is the power switch.
- 17.DC 9V Connect an DC adaptor to this jack.
- 18.PHONES Connect a pair of headphones to this jack.

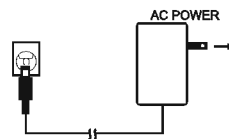
The LED dot indicates the SONG/PAD/KIT status; on the status of SONG, the song number appears on the display; In PAD selection mode, the pad name such as Snare, Crash, and Tom, etc. Will appear on the display. Press KIT button, the drum kit number will be displayed on the LED.



Connect

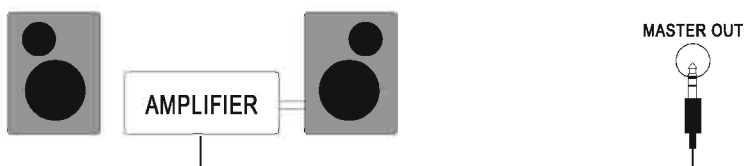
Connecting the Power Supply

Make sure the power is switch OFF and connect the power adaptor to the “DC 9V” jack on the rear panel.



Connecting an Amplifier

When you want to listen to the voices with an amplifier, connect amplifiers to the MASTER OUT jack on the rear panel. The volume is adjusted with the MASTER VOLUME knob.



Connecting a CD Player, etc. (AUX In jack)

The audio output from a CD player connected to the AUX IN jack on the rear panel can be mixed with the sound of the drum brain. This function is convenient when you want to play along with a favourite song.

The volume of the external signal is adjusted with the MASTER VOLUME knob.



Connect

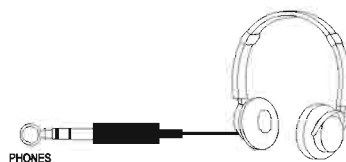
USB MIDI/USB AUDIO

USB MIDI: Connect PC or other USB host devices that support USB audio with a standard USB cable. For devices with USB cable, after the driver is installed and initialization is finished, you can choose USB audio device in the device menu of the software to transfer midi data.

USB AUDIO interface is a digital audio interface. By USB cable, you can digitally transfer intact audio signals of PC to this instrument, and enjoy it on this instrument or use it for accompany when you play this instrument; likewise, you can transfer intact audio signals of the instrument to PC to record and edit music.

Using Headphones

An optional set of stereo headphones can be connected to the PHONES jack located to the left side of the unit. Use the [MASTER VOLUME] to adjust the headphone volume.



Note: Never use headphones in high volume, as it may hurt your ears.

Begin Playing the Drums

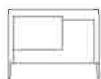
Switch the Power On

After confirming that all connecting cables are properly connected, it is time to turn the power on.

The drum module is ready to play with the display shown below.

This Figure depicts that the Drum Kit is ready to play in Drum Kit # 1.

POWER
ON OFF



Set the Main Volume

Use the [MASTER VOLUME] knob to adjust the main volume. It controls the (Master Out/Aux In/Phones) ports.

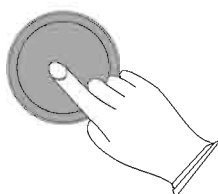


Select a Different Drum Kit

The unit comes with 25(1-25) preset drum kits and 5(U-1~U-5) user kits.

Press [KIT] button, The current kit number appears. You can use the [+/-] button to select the different preset Drum Kits available.

KIT

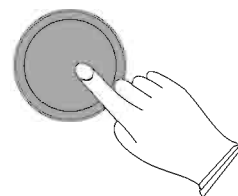


[ENTER] Button

To confirm the function you selected and save the parameters you set.

Press the Enter Button, the LED display will go back to previous menu after saving.

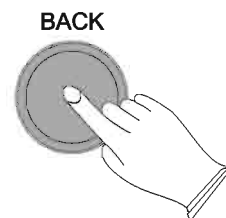
ENTER



Begin Playing the Drums

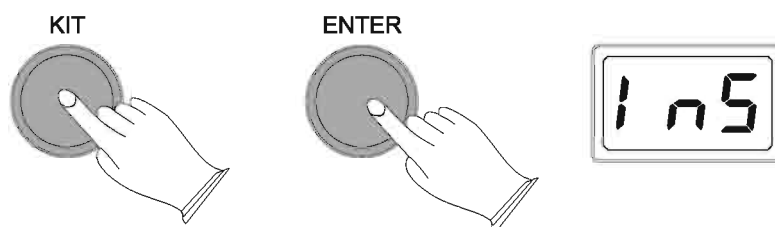
[BACK] Button

Press [BACK] button, LED display will quit the current page and return to the previous menu.



[KIT] Button

Press the [KIT] button then press the [ENTER] button, the LED will display “1 n 5” (Instrument), now, you can use the [+/-] button to select “L E v” (Level), “r E L” (Reverb Level), “[o P” (Chrous Level), “r 5 t” (Copy), and “[h L” (Reset).



A. Selecting A Drum Pad

Press [KIT] button, then press [ENTER] button, LED displays “1 n 5” , then, press [ENTER] button again, use the [+/-] button to select the following pads:

b.d	Bass Drum	r.l	Ride
S.n	Snare	[.r	Crash
S-.r	Stick	h h.o	HiHat Open
t.1	Tom 1	h h.[	HiHat Close
t.2	Tom 2	h h.P	HiHat Pedal
t.3	Tom3	S.P.L	Splash

For example: to select snare voice

1. Press [KIT] button.
2. Press [ENTER] button, the LED will display “1 n 5”
3. Press [ENTER] button, use the [+/-] button to select “S.n”
4. Press [ENTER] button, use the [+/-] button or hit the snare pad forcefully to select the voice.
In this mode you also can press [START/STOP] button to listen to the voice.
5. Press [ENTER] button to confirm.

Begin Playing the Drums

B.Setting The Individual Drum Pad Volume

Press the [KIT] button, then press the [ENTER] button, use [+/-] button to select “LEU”, then press [ENTER] button again, use the [+/-] button to select the following pads:

b.d	Bass Drum	r.l	Ride
S.n	Snare	Cr	Crash
S-.r	Stick	hh.o	HiHat Open
t.1	Tom 1	hh.C	HiHat Close
t.2	Tom 2	hh.P	HiHat Pedal
t.3	Tom3	SP.L	Splash

For example: to set the snare volume

1. Press the [KIT] button.
2. Press the [ENTER] button, LED will display “l n 5”
3. Press the [+/-] button to select “LEU”
4. Press the [ENTER] button, use the [+/-] button to select “S.n”
5. Press the [ENTER] button, use the [+/-] button to set the snare volume. Range: 000-127
6. Press the [ENTER] button to confirm.

C. Adjusting the Individual Pad Reverb Level

Press the [KIT] mode, press the [ENTER] button, use [+/-] button to select “rEL”

Press [ENTER] button again, use the [+/-] button to select a pad (For example: S.n).

Press [ENTER] button again, use the [+/-] button to set the parameters of Reverb Level Kit. Range: 000-127 .

Press the [ENTER] button to confirm.

D. Adjusting the Individual Pad Chorus Level Kit

In the [KIT] mode, press the [ENTER] button, use the [+/-] button to select “ChL”

Press [ENTER] button again, use the [+/-] button to select a pad.

(For example: S.n). Press [ENTER] button again, use the [+/-] button to set the parameters of Chorus Level Kit. Range: 000-127 .

Press [ENTER] button to confirm.

E. Save Your Kit Modifications with Copy Kit

Save all your changes in Reverb, Volume, Chorus levels etc.. to the USER Kit Section.

In [KIT] mode, press [ENTER] button, use [+/-] button to select “COP”

Begin Playing the Drums

Press [ENTER] button again, use [+/-] button to select user kit (U-1~U-5).

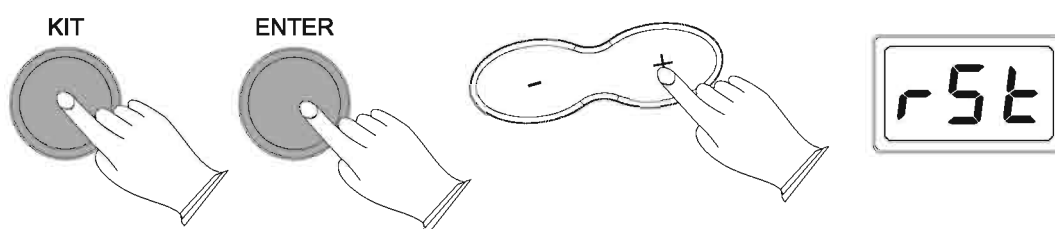
Press [ENTER] button to confirm, copy the current kit to user kit.

F. Resetting to Factory Default [KIT]

This is used to reset ALL the [KIT] settings to the original factory settings.

Press the [KIT] mode, press the [ENTER] button, then use the [+/-] button to select “r5t”

Then press [ENTER] again to confirm.



[SETUP] Button

In this mode, you can set the Pad Trigger, the MIDI out channels, Local On/Off, Effects, Rim Snare On/Off, and Resetting functions.

A. Trigger Setting

This setting will adjust the sensitivity of the Drum Pads.

Press the [SETUP] button, the LED will display “t r G”, press the [ENTER] button, the LED will display “r - G”. Use the [+/-] button to select “r - G” “t h r” “G U r” “t A L”.

then, press the [ENTER] button again and use the [+/-] button to select the following pads:

b.d	Bass Drum	r.l	Ride
S.n	Snare	G.r	Crash
S - r	Stick	h.h	Hi-Hat
t.1	Tom 1	h.h.G	Hi-Hat Close
t.2	Tom 2	S.P.L	Splash
t.3	Tom3		

Press the [ENTER] button to confirm the selected pad, and use the [+/-] button to set the parameters, Finally, press the [ENTER] button to confirm.

Begin Playing the Drums

r - [When set to a low value, it will be difficult to play very quickly.

Set this to as high a value as you can. Range: 001-008

tr This setting allows a trigger signal to be received only when the pad is above a determined force level (velocity). This can be used to prevent a pad from sounding because of vibrations from other pads. When set to a higher value, no sound is produced when the pad is strike lightly. The Range is from 000-050.

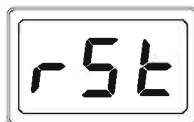
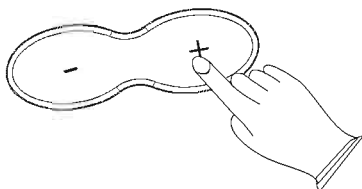
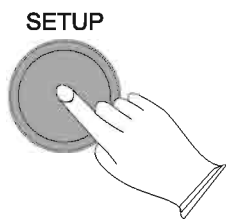
[U To select the velocity curve of each pad. Range: “nor (Normal)” , “dyn (dynamic)” , “ESY (easy)” , and “fld (Fixed)” .

TAL Another setting for Drum Pad cross talk makes sure that other pads do not sound when you strike one of the pad forcefully, in order to avoid this phenomena, please adjust “TAL” to a high value. Range is from 000-080

Trigger Resetting

To Reset the Triggering Settings:

1. Press the [SETUP] button, LED displays “tr”
2. Use the [+/-] button to select “r5t”
3. Press the [ENTER] button again to confirm the resetting of the Trigger Settings.



Begin Playing the Drums

C. Local On/Off

The Local On/Off controls whether to send sound from your Drum Module sound to your internal speaker system.

Press the [SETUP] button and use the [+/-] button to select “LoC”

Press the [ENTER] button and use the [+/-] button to select “oN” or “oFF”

Press the [ENTER] button to confirm. The display will return to “LoC” mode.



“ON” is for Normal operation. All functions are used normally.

“OFF” is for no sound being produced by the Sound Module. MIDI functions would work as usual.

D. Effect

You can set the Reverb and Chorus effect from this setting.

1. Press the [SETUP] button and use the [+/-] button to select “EFc”

2. Press the [ENTER] button and use the [+/-] button to select “rEv” , “Chr”



Begin Playing the Drums

1) Reverb

When “rEv” selected, press [ENTER] button, use [+/-] button to select 8 reverb types, “oFF” means to turn the reverb off.

Press the [ENTER] button to confirm your setting.



2) Chorus

When “Ch” selected, press the [ENTER] button and use the [+/-] button to select 8 chorus types, “oFF” means to turn the chorus off.

Finally, press [ENTER] button to confirm your setting.



E. Sleep on/off

Press the [SETUP] button and use the [+/-] button to select “SA” , then press [ENTER] button, use [+/-] button to select “oN” or “oFF” .

Press the [ENTER] button to confirm.



“ON” Mode: When the Sleep Function is on and there is no operation within thirty minutes, the drum will automatically enter the Sleep State. Press any button to exit this sleep state.

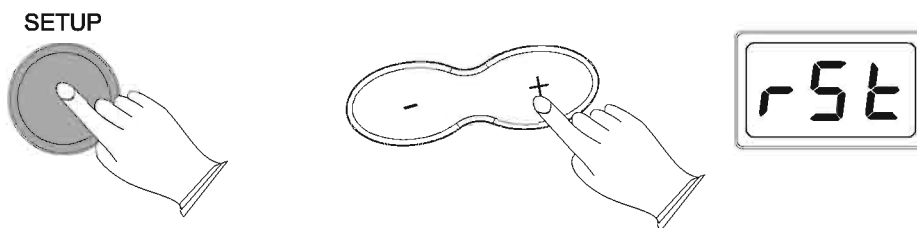
“OFF” Mode: Turns the Sleep function off.

Begin Playing the Drums

F. Resetting

This function can reset all settings of the [SETUP].

Press the [SETUP] button and use the [+/-] button to select “r5t”, then press the [ENTER] button to reset all settings of the [SETUP] function.



Begin Playing the Drums

[SONG] Button

Your drum provides 30 (001-030) preset songs, and 2 (d-1/d-2) song demos.

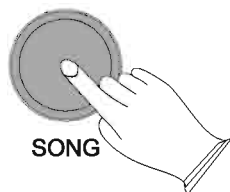
Press the [SONG] button and use the [+/-] button select desired song.

Press the [START/STOP] button to start or stop the song.

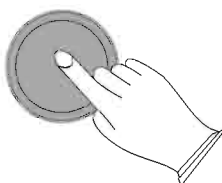


A. DRUM ON/OFF

In the [SONG] mode, press the [ENTER] button and the LED will displays “dr U” , then press the [ENTER] button again and use the [+/-] button to select “ON” or “OFF” , then press the [ENTER] button to confirm.



ENTER



“ON” Mode: Turns on the percussion track of the Play Along song.

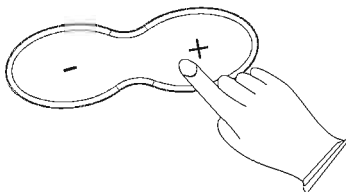
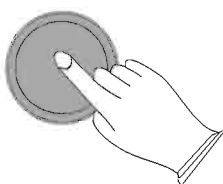
“OFF” Mode: Turns off the percussion track of the Play Along song.

B. Changing Percussion Volume

In the [SONG] mode, press the [ENTER] button and use the [+/-] button to select “dL U” , then press the [ENTER] button again and use the [+/-] button to adjust percussion volume.

Finally, press the [ENTER] button to confirm. The Range is from 000-032.

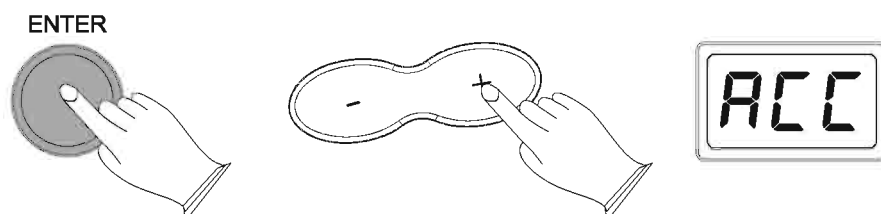
ENTER



Begin Playing the Drums

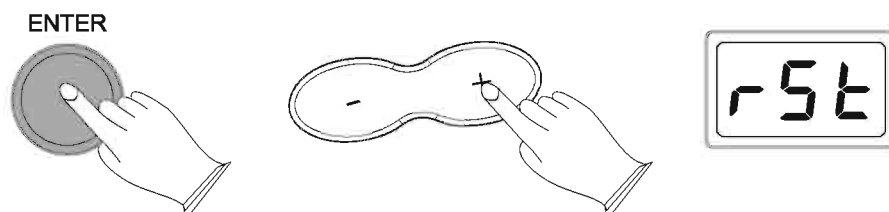
C. Accompaniment Volume

Press the [SONG] button and then press the [ENTER] button and use the [+/-] button to select “ACC”, press the [ENTER] again and use the [+/-] button to adjust the accompaniment volume. To confirm press the [ENTER] button. The Range is from 000-032.



D. [SONG] Resetting

In the [SONG] mode, press the [ENTER] button and use the [+/-] button to select “rSt”, Press the [ENTER] button again to reset all the settings of the [SONG].



[CLICK] Button

Press [CLICK] button to turn on or turn off metronome.

A. Click Volume

Press the [CLICK] button and the LED will display “LEU”, Press the [ENTER] button and use the [+/-] button to adjust the click volume, Its range is from 000-032.

Finally, press the [ENTER] button to confirm.



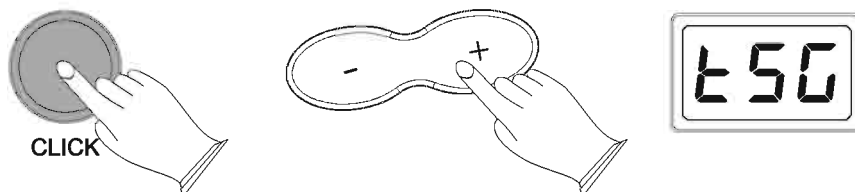
Begin Playing the Drums

B. Click Type

Press the [CLICK] button and use the [+/-] button to select “t5G”, then press the [ENTER] button and use the [+/-] button again to select click type: 1/4, 2/4, 3/4, 4/4, 6/4, 3/8, 6/8, 12/8.

Default: 4/4

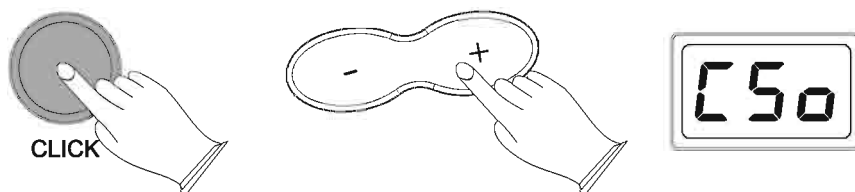
Finally, press [ENTER] button to confirm.



C. Click Sound

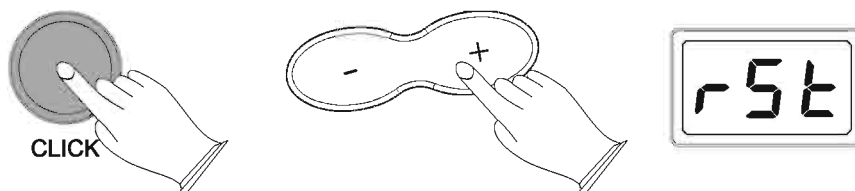
Press the [CLICK] button and use the [+/-] button to select “C5o”, and then press the [ENTER] button and use the [+/-] button to select three click sound.

Finally, press the [ENTER] button to confirm.



D. Click Resetting

Press the [CLICK] button and use the [+/-] button to select “r5t”, and then press the [ENTER] button to reset click settings.



Begin Playing the Drums

[TEMPO/TAP] Button

Tempo function, you can adjust click tempo and song's tempo by using [TEMPO/TAP] button.

A. Adjusting Click Tempo

Press the [TEMPO/TAP] button and the LED will display the current tempo, Then use the [+/-] button to change tempo value. Click Tempo Range is 020-240.



B. Adjusting Song's Tempo

Press the [TEMPO/TAP] button while playing your desired Song. The LED will display the current tempo, use the [+/-] button to adjust tempo value. Tempo Range is 020-240

Press the [TEMPO/TAP] button while playing the song. The LED will display the current tempo. Press the [ENTER] button and the tempo value will be flashed. Tap on the pad 4 times to change the tempo .



Note: You must start the Song first to begin to change its Tempo.

Begin Playing the Drums

[START/STOP] Button

In the [SONG] mode, press the [START/STOP] to start or stop playing the song.

In [REC/PLAY] mode, press the [START/STOP] to start or stop recording.

In voice selection mode, press the [START/STOP] button to listen to the instrument voice.

Recording Function

Press the [REC/PLAY] button to enter the record mode.

A. “Rec” (Record)

Press the [START/STOP] button to start recording.

B. “Ply” (Play)

Press the [START/STOP] button to start playing the song. Press it again to stop playing.

C. “CLr” (Clear)

Press the [ENTER] button to delete the song.

D. “Sta” (Start mode)

Press the [ENTER] button to select the start mode of the recording .

Use the [+/-] button to select “*AUT*” “*SYN*”

AUT -----Means that After four beats it will automatically start recording .

If you use Syn Mode it will start recording.

SYN -----When you start playing the instrument.

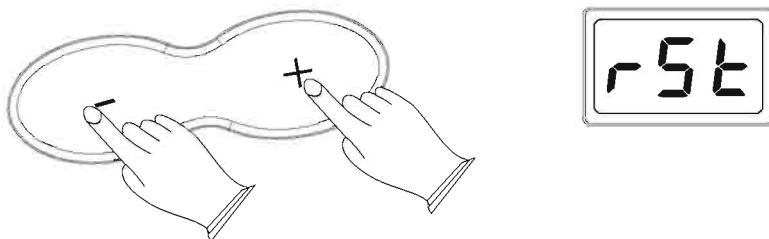
Factory Set

To Reset the HD-3 to its Factory Settings.

Turn off the power.

Hold down the [+/-] buttons and then turn the power on.

It can restore all internal settings to its original factory settings.



Drum Kits List

Kit #	Name	Kit #	Name
001	Acoustic 1	016	Latin
002	Acoustic 2	017	Pop
003	Room	018	Eight-oh
004	Nine-oh	019	Electro-pop
005	Rock 1	020	Trash
006	Dance Club	021	Rock 2
007	Jazz	022	Reggae-pop
008	Rap-hop	023	Brush
009	Early R&B	024	Modern R&B
010	Electronic 1	025	Drum Box 2
011	Crunch	026	Acoustic 1 (duplicate)
012	Compressed	027	Acoustic 2 (duplicate)
013	Electronic 2	028	Room (duplicate)
014	Analog	029	Eight-oh (duplicate)
015	Drum Box 1	030	Rock 1 (duplicate)

Voice List

Group 1: Kick Drums

01 Acoustic kick 1
02 Acoustic kick 2
03 Room kick 1
04 Room kick 2
05 Rock kick 1
06 Jazz kick
07 Early R&B kick
08 Compressed kick
09 Latin kick
10 Pop kick
11 Trash kick
12 Rock kick 2
13 Reggae-pop kick
14 Brush kick
15 Modern R&B kick
16 Big kick
17 Rock kick 3
18 Rock kick 4
19 Rock kick 5
20 8-oh kick
21 9-oh kick
22 Dance club kick
23 Rap-hop kick
24 Electronic kick 1
25 Electronic kick 2
26 Analog kick
27 Drum box kick 1
28 Drum box kick 2
29 Crunch kick
30 Electro-pop kick
31 Thick kick

Group 2: Snare Drums

01 Acoustic snare 1
02 Piccolo snare 1
03 Piccolo snare 2
04 Room snare 1
05 Room snare 2
06 Rock snare 1
07 Rock snare 2
08 Rock snare 3
09 Rock snare 4
10 Compressed snare
11 Jazz snare
12 Acoustic snare 2
13 Acoustic snare 3
14 Trash snare
15 Pop snare 1
16 Reggae-pop snare
17 Brush snare
18 Early R&B snare
19 Pop snare 2
20 Latin snare+tambourine
21 Electro-pop snare
22 Rap-hop snare
23 Analog snare 1
24 Modern R&B snare
25 Rock snare 5
26 Electronic snare 1
27 Drum box snare 1
28 8-oh snare
29 Dance club snare
30 9-oh snare
31 Drum box snare 2

32 Crunch snare 1
33 Electronic snare 2
34 Analog snare 2
35 Crunch snare 2
36 Drum box snare 3
37 Noise snare
38 Reso-snare
39 Bubble snare
40 Acoustic rimshot 1
41 Early R&B rimshot
42 Pop rimshot 1
43 Piccolo rimshot 1
44 Rock rimshot 1
45 Jazz rimshot 1
46 Acoustic rimshot 2
47 Compressed rimshot
48 Room rimshot
49 Pop rimshot 2
50 Rock rimshot 2
51 Reggae-pop rimshot
52 Brush rimshot
53 Analog rimshot 1
54 Modern R&B rimshot
55 Trash rimshot
56 Drum box rimshot 1
57 8-oh rimshot
58 Dance club rimshot
59 Electronic rimshot 1
60 Crunch rimshot
61 Electronic rimshot 2
62 Analog rimshot 2
63 Drum box rimshot 2
64 Electro-pop rimshot

Voice List

65 Piccolo snare 3
66 Piccolo rimshot 2
67 Rock snare 6
68 Rock rimshot 3

Group 3: Toms

01 Acoustic tom 1 (high)
02 Acoustic tom 1 (mid)
03 Acoustic tom 1 (low)
04 Acoustic tom 2 (high)
05 Acoustic tom 2 (mid)
06 Acoustic tom 2 (low)
07 Room tom 1 (high)
08 Room tom 1 (mid)
09 Room tom 1 (low)
10 Compressed tom (high)
11 Compressed tom (mid)
12 Compressed tom (low)
13 Rock tom 1 (high)
14 Rock tom 1 (mid)
15 Rock tom 1 (low)
16 Rock tom 2 (high)
17 Rock tom 2 (mid)
18 Rock tom 2 (low)
19 Pop tom 1 (high)
20 Pop tom 1 (mid)
21 Pop tom 1 (low)
22 Pop tom 2 (high)
23 Pop tom 2 (mid)
24 Pop tom 2 (low)
25 Tight tom (high)
26 Tight tom (mid)
27 Tight tom (low)
28 D-dub tom (high)
29 D-dub tom (mid)

30 D-dub tom (low)
31 Rock tom 3 (high)
32 Rock tom 3 (mid)
33 Rock tom 3 (low)
34 Rock tom 4 (high)
35 Rock tom 4 (mid)
36 Rock tom 4 (low)
37 Rock tom 5
38 Modern R&B tom (high)
39 Modern R&B tom (mid)
40 Modern R&B tom (low)
41 Jazz tom (high)
42 Jazz tom (mid)
43 Jazz tom (low)
44 Brush tom (high)
45 Brush tom (mid)
46 Brush tom (low)
47 Early R&B tom (high)
48 Early R&B tom (mid)
49 Early R&B tom (low)
50 Reggae-pop tom & timbale
51 Reggae-pop tom & conga
52 Reggae-pop tom & conga
53 Latin tom & conga
54 Latin tom & bongo
55 Electro-pop tom (high)
56 Electro-pop tom (mid)
57 Electro-pop tom (low)
58 Electro-pop tom 2 (high)
59 Electro-pop tom 2 (mid)
60 Electro-pop tom 2 (low)
61 Trash tom (high)
62 Trash tom (mid)
63 Trash tom (low)
64 Crunch tom (high)
65 Crunch tom (mid)

66 Crunch tom (low)
67 Rap-hop tom (high)
68 Rap-hop tom (mid)
69 Rap-hop tom (low)
70 Electronic tom 1 (high)
71 Electronic tom 1 (mid)
72 Electronic tom 1 (low)
73 Electronic tom 2 (high)
74 Electronic tom 2 (mid)
75 Electronic tom 2 (low)
76 Analog tom (high)
77 Analog tom (mid)
78 Analog tom (low)
79 9-oh tom (high)
80 9-oh tom (mid)
81 9-oh tom (low)
82 9-oh tom 2 (high)
83 9-oh tom 2 (mid)
84 9-oh tom 2 (low)
85 8-oh tom-fall (high)
86 8-oh tom-fall (mid)
87 8-oh tom-fall (low)
88 Drum box tom 1 (high)
89 Drum box tom 1 (mid)
90 Drum box tom 1 (low)
91 Drum box tom 2 (high)
92 Drum box tom 2 (mid)
93 Drum box tom 2 (low)
94 Dance club tom (high)
95 Dance club tom (mid)
96 Dance club tom (low)

Voice List

Group 4: Cymbals

01 Crash cymbal 1
02 Crash cymbal 2
03 Rap-hop crash
04 Mid crash 1
05 Mid crash 2
06 Dark crash
07 18" crash 1
08 18" crash 2
09 Mid splash
10 High splash
11 Crispy splash
12 Trash splash
13 Small splash
14 Electro splash
15 Dark splash
16 Low crash 1
17 Low crash 2
18 Analog crash
19 Electro-pop crash
20 Dance club crash
21 Electro crash 1
22 Electro crash 2
23 Falling crash
24 Submarine crash
25 Sizzle ride
26 Sizzle ride plus bell
27 Cymbal ride bell 1
28 Cymbal ride bell 2
29 Low ride
30 Early R&B ride
31 Ride crash
32 Brush ride

33 Cymbal ride plus bell 3
34 Latin ride & cowbell
35 Cymbal ride plus bell 1
36 Cymbal ride plus bell 2
37 Trash ride
38 Electronic ride 1
39 Electro-pop ride
40 High ping ride
41 Drum box ride
42 9-oh ride crash
43 Pie tin ride
44 Electronic ride 2
45 Crunch ride
46 Electronic crash-ride
47 Electronic ride 3

Group 5: Hi-hats

1 Brush hat 1 closed
2 Brush hat 1 foot
3 Brush hat 1 open
4 Brush hat 1 splash
5 Brush hat 2 closed
6 Brush hat 2 foot
7 Brush hat 2 open
8 Brush hat 2 splash
9 Room hat closed
10 Room hat foot
11 Room hat open
12 Room hat splash
13 Rock hat 1 closed
14 Rock hat 1 foot
15 Rock hat 1 open
16 Rock hat 1 splash
17 Rock hat 2 closed
18 Rock hat 2 foot

19 Rock hat 2 open
20 Rock hat 2 splash
21 Small hat 1 closed
22 Small hat 1 foot
23 Small hat 1 open
24 Small hat 1 splash
25 Small hat 2 closed
26 Small hat 2 foot
27 Small hat 2 open
28 Small hat 2 splash
29 Snappy brush hat closed
30 Snappy brush hat foot
31 Snappy brush hat open
32 Snappy brush hat splash
33 Trash hat closed
34 Trash hat foot
35 Trash hat open
36 Trash hat splash
37 Early R&B hat closed
38 Early R&B hat foot
39 Early R&B hat open
40 Early R&B hat splash
41 Boom snap hat closed
42 Boom snap hat open
43 Boom snap hat splash
44 Rock hat 3 closed
45 Rock hat 3 open
46 8-oh hat closed
47 8-oh hat foot
48 8-oh hat open
49 Dance club hat closed
50 Dance club hat foot
51 Dance club hat open
52 Rap-hop hat closed

Voice List

53 Rap-hop hat foot
54 Rap-hop hat open
55 Rap-hop hat splash
56 Electronic hat 1 closed
57 Electronic hat 1 foot
58 Electronic hat 1 open
59 Crunch hat closed
60 Crunch hat foot
61 Crunch hat open
62 Electronic hat 2 closed
63 Electronic hat 2 foot
64 Electronic hat 2 open
65 Electronic hat 2 splash
66 Analog hat closed
67 Analog hat foot
68 Analog hat open
69 Drum box hat 1 closed
70 Drum box hat 1 foot
71 Drum box hat 1 open
72 9-oh hat closed
73 9-oh hat foot
74 9-oh hat open
75 9-oh hat splash
76 Electro-pop hat closed
77 Electro-pop hat foot
78 Electro-pop hat open
79 Electro-pop hat splash
80 Modern R&B hat closed
81 Modern R&B hat foot
82 Modern R&B hat open
83 Modern R&B hat splash

84 Drum box hat 2 closed
85 Drum box hat 2 foot
86 Drum box hat 2 open
87 Shaker hat closed

Group 6: Percussion

01 Agogo (high)
02 Agogo (low)
03 Agogo (high/low)
04 Conga (high)
05 Conga (low)
06 Hand claps
07 Timbale (high)
08 Timbale (low)
09 Triangle mute
10 Triangle open
11 Triangle (open/mute)
12 Woodblock (high)
13 Woodblock (low)
14 Woodblock (high/low)
15 Shaker
16 Tambourine (down)
17 Tambourine (up)
18 Tambourine (up/down)
19 Cowbell
20 8-oh cowbell

Style List

Number	Song Name/Style
01	Rock Shuffle
02	Surf Pop
03	Techno
04	60's Rock
05	Hard Rock
06	Pop Bossa
07	80's Rock
08	16 Beat
09	Pop Shuffle
10	Guitar Pop
11	Modern 6/8
12	Swing Funk
13	Piano Ballad
14	Rap
15	16 Beat Ballad

Number	Song Name/Style
16	Pop Ballad
17	8 Beat Dance
18	8 Beat Modern
19	70's Disco
20	Big Band
21	Country 8 Beat
22	3/4 Gospel
23	Soul
24	8 Beat Two
25	Reggae
26	Swing Reggae
27	English Waltz
28	Tango
29	Rhythm & Blues
30	Polka

MIDI Implementation Chart

Function	Transmitted	Recognized	Remarks
Basic Default	1-16CH	1-16CH	
Channel Changed	1-16CH	1-16CH	
Mode Default	Mode 3	Mode 3	
Messages	X	X	
Altered	*****	X	
Note Number : True voice	0~127 *****	0~127 0~127	
Velocity Note ON Note OFF	O 9nH,v=1~127 O 8nH,v=0	O 9nH,v=1~127 O 9nH,v=0 or 8nh	
Affter Key's	X	X	
Pitch Bender	X	O	
Control Change 0, 32	O	O	Bank Select
1	X	O	Modulation
5	X	O	Portamento time
6	O	O	Data Entry
7	O	O	Volume
10	X	O	Pan
11	X	O	Expression
64	X	O	Sustain
65	X	O	Portamento
66	X	O	Sostenuto
67	X	O	Soft pedal
80, 81	O	O	DSP TYPE
91, 93	O	O	DSP DEPTH
100,101	X	O (*1)	RPN LSB,MSB
121	X	O	Reset all Controllers
Program Change : True	O 0-127 0-127	O 0-127 0-127	
System Exclusive	X	X	
System : Song Position	X	X	
: Song Select	X	X	
Common : Tune	X	X	
Aux : Local on/off	X	O	
: All Notes Off	O	O	
Messages : Active Sense	X	O	
: Reset	X	O	

Mode1:OMNI ON, POLY
Mode3:OMNI OFF, POLY

Mode2:OMNI ON, MONO O: Yes
Mode4:OMNI OFF, MONO X: NO

*1: Registered parameter number:

#0: Pitch sensivity

#1: Fine tuning cents

#2: Coarse tuning in half-tones

10506069-V1.0

Specifications

- ☆ **Drum Pads:** 1 Snare with RIM Function, 3 TOM Pads, 2 Cymbal Pads, 1 Hi-Hat, 1 Hi-Hat Control, 1 Kick Trigger
- ☆ **Display:** Multi-Function LED Display.
- ☆ **Polyphony:** 64 Notes Max
- ☆ **Voice Control:** 349 drum instruments, 30 customizable kits
- ☆ **Effect:** Reverb type (11), Level, Chorus type (14), Level
- ☆ **Styles:** 30 Styles
- ☆ **Pad Control:** Sensitivity; Threshold ;Velocity Curve
- ☆ **Demo:** 2 Songs
- ☆ **Song recording:** Real-time Record and Playback.
- ☆ **Others:** Tap, Click Level, Click Sound, Click Tempo, Metronome (1/4, 2/4, 3/4, 4/4, 6/4, 3/8, 6/8, 12/8)
- ☆ **Interface:** DC 9V Power Socket, Headphone, USB to Host, Master Out, AUX In, HH-Ctrl, Hi-Hat, Crash, Ride, Snare, Tom 1, Tom 2, Tom 3, Kick, Phones Volume Slider Knob

Virgin Musical Instrument Company INC

P O Box 2908

La Mesa, CA 91943

619 244-0006

Virginmusicalinstrumentcompany.com

info@virginmusicainstruments.com